



SHEET 1 OF 1

INFORMATION DISCLOSURE
CITATION IN AN
APPLICATIONATTY. DOCKET NO.
50212-581SERIAL NO.
10/804,174APPLICANT
Toshiaki OKUNO, et al.

(PTO-1449)

FILING DATE
March 19, 2004GROUP
2874

U.S. PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|---------------------|----------|---|--------------------------------|---|---|
| JDL | | US 5,960,146 A | 9-28-1999 | Okuno et al. | |
| JDL | | US 4,852,968 A | 8-1-1989 | Reed | |

FOREIGN PATENT DOCUMENTS

| EXAMINER'S INITIALS | CITE NO. | Foreign Patent Document Country Codes-Number + Kind Codes (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines Where Relevant Figures Appear | Translation Yes No |
|---------------------|----------|--|--------------------------------|---|---|-----------------------|
| JDL | | EP 1 209 497 A2 | 5-29-2002 | Sumitomo Electric Industries | | X |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| EXAMINER'S INITIALS | CITE NO. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|---------------------|----------|---|
| JDL | | HIROSHI, J. et al., "Dispersion slope controlled HNL-DSF with high γ of 25 W ⁻¹ km ⁻¹ and band conversion experiment using this fiber" Fitel Photonics laboratory, ECOC2002, Post-deadline session 1 |
| JDL | | OKUNO, T. et al., "Generation of Ultra-Broad-Band Supercontinuum by Dispersion-Flattened and Decreasing Fiber" IEEE Photonics Technology Letters, Vol. 10, No. 1, January 1998 |
| JDL | | HANSEN, K.P. et al., "Fully Dispersion Controlled Triangular-Core Nonlinear Photonic Crystal Fiber" OFC2003, March 23-28, 2003, Postdeadline Papers |
| JDL | | LEE, J.H. et al., "Four-Wave Mixing Based 10-Gb/s Tunable Wavelength Conversion Using a Hollow Fiber With a High SBS Threshold" IEEE Photonics Technology Letters, Vol. 15, No. 3, March 2003 |
| JDL | | INOUE, K. "Arrangement of fiber pieces for a wide wavelength conversion range by fiber four-wave mixing" August 15, 1994 / Vol. 19, No. 16 / Optics Letters |
| JDL | | ONISHI, M. et al., "Highly Nonlinear Dispersion-Shifted Fibers and Their Application to Broadband Wavelength Converter" Optical Fiber Technology, 4, 204-214 (1998), Article No. OF980248 |
| JDL | | INOUE, K. "Tunable and Selective Wavelength Conversion Using Fiber Four-Wave Mixing with Two Pump Lights" IEEE Photonics Technology Letters, Vol. 6, No. 12, December 1994 |
| JDL | | TANAKA, K. et al., "400 Gbit/s (20x20 Gbit/s) dense WDM solution-based RZ signal transmission using dispersion flattened fibre" Electronic Letters, November 12, 1998, Vol. 34, No.23 |
| JDL | | "Low-Loss Quadruple-Clad Single-Mode Lightguides with Dispersion Below 2 ps/km nm over the 1.28 μ m - 1.65 μ m Wavelength Range" Electronic Letters, November 25, 1982, Vol. 18, No.24 |
| JDL | | LIU Y. et al., "Design and Fabrication of Locally Dispersion-Flattened Large Effective Area Fibers" ECOC 98 Corning Incorporated, September 1998 |
| JDL | | NAKAZAWA M. et al., "TDM single channel 640Gbit/s transmission experiment over 60km using 400fs pulse train and walk-off free, dispersion flattened nonlinear optical loop mirror" Electronic Letters, April 30, 1998, Vol. 34, No.9 |
| JDL | | ONISHI, M. et al., "Highly Nonlinear Dispersion Shifted Fiber and its Application to Broadband Wavelength Converter" ECOC 97, September 22-25, 1997, Conference Publication No. 448 |
| JDL | | WATANABE, S. et al., "Simultaneous Wavelength Conversion and Optical Phase Conjugation of 200 Gb/s (5x40 Gb/s) WDM Signal Using a Highly Nonlinear Fiber Four-wave Mixer" ECOC 97, September 22-25, 1997, Conference Publication No. 448 |
| JDL | | Tsuzaki, T. et al., "Broadband Discrete Fiber Raman Amplifier with High Differential Gain Operating Over 1.65 μ m-band" © 2000 Optical Society of America |
| JDL | | OKUNO T. et al., "Silica-Based Functional Fibers with Enhanced Nonlinearity and Their Applications" IEEE Journal of Selected Topics in Quantum Electronics Vol. 5, No. 5, September/October 1999 |
| JDL | | BATAGELJ B. et al., "Conversion Efficiency of Fiber Wavelength Converter Based on Degenerate FWM" Transparent Optical Networks, 2nd International Conference on Gdansk, Poland, June 5, 2000 |
| JDL | | HEADLY, C. et al., "Methods of Suppressing Stimulated Brillouin Scattering in Optical Fibers by Manipulation of the Fiber Properties", Technical Digest Symposium on Optical Fiber Measurements, October 1, 1996, pp 105-110 |

EXAMINER

John D. Lee

DATE CONSIDERED

07 DECEMBER 2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.